

3 - Ores (powder form) Phosphate Rocks and Bauxites

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

3 - Ores (powder form) Phosphate Rocks and Bauxites

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

3(3)- Ores (powder form) Phosphate Rocks and Bauxites

SRM	69b	120c	600	694	696	697	698	699
Description	Bauxite (Arkansas)	Phosphate Rock (Florida)	Bauxite, Australian-Darling Range	Phosphate Rock, Western	Bauxite, Surinam	Bauxite, Dominican	Bauxite, Jamaican	Alumina (Reduction Grade)
Unit Size	(60 g)	(90 g)	(90 g)	(90 g)	(60 g)	(60 g)	(60 g)	(60 g)

(Concentrations are in mass fractions, in %, unless noted by an asterik for mg/kg)

Aluminum oxide (Al ₂ O ₃)	48.8	1.30	40.0	1.8	54.5	45.8	48.2	
Barium oxide (BaO)	(0.008)				(0.004)	(0.015)	(0.008)	
Beryllium (Be)								2.81*
Cadmium oxide (CdO)		0.0010		0.015				
Calcium oxide (CaO)	0.13	48.02	0.22	43.6	0.018	0.71	0.62	0.036
Carbon dioxide (CO ₂)		3.27						
Cerium (Ce)	(0.024)				(0.0041)	(0.069)	(0.030)	
Chromium oxide (Cr ₂ O ₃)	0.011		0.024	(0.10)	0.047	0.100	0.080	0.0002
Cobalt (Co)	(0.0001)				(0.00009)	(0.0013)	(0.0045)	
Fluorine (F)		3.82		3.2				
Gallium oxide (Ga ₂ O ₃)								0.010
Iron oxide (Fe ₂ O ₃)	7.14	1.08	17.0	0.79	8.70	20.0	19.6	0.013
Lithium oxide (Li ₂ O)								0.002
Loss on Ignition-See certificate for conditions	27.2		20.5		29.9	22.1	27.3	0.69
Magnesium oxide (MgO)	0.085	0.32	0.05	0.33	0.012	0.18	0.058	0.0006

(Concentrations are in mass fractions, in %, unless noted by an asterik for mg/kg)

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only

3 - Ores (powder form) Phosphate Rocks and Bauxites

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Manganese oxide (MnO)	0.110	0.027	0.013	0.0116	0.004	0.41	0.38	0.0005
Phosphorus pentoxide (P ₂ O ₅)	0.118	33.34	0.039	30.2	0.050	0.97	0.37	0.0002
Potassium oxide (K ₂ O)	0.068	0.147	0.23	0.51	0.009	0.062	0.010	(0.005)
Silicon dioxide (SiO ₂)	13.43	5.5	20.3	11.2	3.79	6.81	0.69	0.0120
Sodium oxide (Na ₂ O)	(0.025)	0.52	0.022	0.86	(0.007)	(0.036)	(0.015)	0.59
Sulfur trioxide (SO ₃)	0.551		0.155		0.150	0.0770	0.143	
Titanium dioxide (TiO ₂)	1.90	0.103	1.31	(0.11)	2.64	2.52	2.38	(0.001)
Uranium (U)				0.01414				
Uranium Oxide (U ₃ O ₈)		0.0135						
Vanadium pentoxide (V ₂ O ₅)	0.028	0.016	0.060	0.31	0.072	0.063	0.064	0.0005
Zinc oxide (ZnO)	0.0035		0.003	(0.19)	0.0014	0.037	0.029	0.013
Zirconium dioxide (ZrO ₂)	0.29		0.060		0.14	0.065	0.061	(0.0002)

- Certified values are normal font
- Reference values are italicized
- Values in parentheses are for information only